

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: bfollett@ditell.com
Subject: [6378] 10 M xtals -- 28.322
Message-ID: <199603291938.MAA02876@orion.ditell.com>

Gang:

Raphael wrote:

<< If I'm not wrong, 28.322 MHz is the frequency of VGA video in most of computers.>>

He is absolutely correct about this! It turns out to be the strongest signal on the band for me, even on my SWL radio about 100ft away.

I kinda liked the Fireball frequency of 28.600 using clock xtals, but as been mentioned before, they generate square waves, and the Fireball design is inadequate. Someone want to breadboard a xmitter design and see if these xtals can be tamed? They certainly are readily available and cheap.

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: torell@sicom.com (Kent Torell)
Subject: [6375] 10 meter xtal / vga interference
Message-ID: <v02130502ad81de8bdbd3@[192.91.202.41]>

Rafael perceptively notes:

>If I'm not wrong, 28.322 MHz is the frequency of VGA video.....

Sure enough, the lab receiver registers a weak signal on the outside antenna. If I connect a test lead over to the computer, I get a good cw tone. Have to get pretty close, and the level is certainly not enuf to overload any receiver...the spectrum analyzer sez it's around -110 dBm.

If we tune the rig, like the 40-9'r, it shouldn't be a problem. Also, the colorburst net folks on the east coast can tell us if tv radiation has been a problem for them.

Looks like a possible cheap source for crystals...junked pc's (or at least

the vga card :-)

72, ab70a

Kent Torell torell@sicom.com 602-483-2867 x40
SICOM 7585 E. Redfield, #202 Scottsdale, AZ 85260

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Mike Connor <mikec@primenet.com>
Subject: [6381] 2N3053 Info
Message-ID: <01BB1D70.A425BD60@mikec.primenet.com>

Gang,
Does anyone have any info on the Motorola 2N3053?

Thanks,
Mike
NQ7K

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6342] 30M
Message-ID: <199603290530.FAA29638@chuck.dallas.sgi.com>

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: KC7FYS@aol.com
Subject: [6345] 49r kit
Message-ID: <960329072001_258986674@mail02.mail.aol.com>

Hello.
I WANT TO ASK THE MOST OBVIOUS QUESTION. I WANT TO BUILD THE 49R AND WANT TO
KNOW HOW CAN I BUY THIS KIT? SOMEONE PLEASE EMAIL ME. THANK YOU FOR SUCH AN
INTERESTING AND INFORMATIVE LIST! FUNNY, TOO!
JONATHAN 7J1AWL/KC7FYS

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: rflight@VNET.IBM.COM
Subject: [6365] Altoids source
Message-ID: <199603291714.MAA56050@nss2.CC.Lehigh.EDU>

Lotzah good gnu's!

I was overwhelmed by a "curiously strong" motivation to join the "Ban wagon" while vacationing last week....

My best half and I look forward to vacations because we do the "Cracker Barrel Hop" on our way to anywhere. I won't expound on the culinary virtues and "happy camper" services of that chain, and until I succumb to my wife's nagging to buy stock, I have no financial interest in Cracker Barrel.

But.....

They sell Altoids... I know what these little buggers are now!

\$1.86 each, and all but 1 of the several we visited had them in stock. I told my XYL "The guys on the Internet have been talking about these! They seem to think they are really good... I think I'll try them." I was programmed to like them several times during the week to the tune of 4. I like to ensure I have spares. They are actually quite good, and last a disappointingly long time. I was fearful I wouldn't be able to consume enough to cover spares.

My wife remains perplexed as to why I have to keep all these little tins around, but she's a real gem about it, and tolerates it with minimal begging on my part:-)

But... Now the really good news!!

Cracker Barrel is in the home brew business... No not beer dummy... radios... Yeah! Can you believe it? Why I saw a tin of Reese Cups that would make a great 6L6 chassis or house a complete tranceiver with lantern batteries. What a deal... They have little round tins... Heart shaped tins (for those who really love this sort of thing), and they even had decorated empty tins of all sizes. I even convinced my beloved that she should try some of those Napoleon sours... A slightly bigger Altoids like box, but she was attracted to the ones in the round tins. When they empty, I'm going to measure them for suitability as microwave filter cavities:-)

Come to think of it... The food wasn't bad either...

72/3 de N3GO / Gary Raleigh, NC

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [6389] Amateur comet photos
Message-ID: <199603292239.PAA23692@zia.aoc.nrao.edu>

I'm also one of the charter members of our local amateur astronomy observatory built a few years back. We've been snapping some good photos of Hyakutake comet on our C-16 and homebuilt Shief-Speegler and Dobsonian. Great photos taken by amateurs on amateur scopes. They have been placed on the web page maintained by the club members at our local university.

For those interested in some amateur shots of the comet:

<http://www.nmt.edu/~astro>
click on "astronomical images;" also a link to the JPL images.

Of the 6 principals in this amateur observatory, 5 are also hams! I think you'll find these amateur photographs of the comet to be nearly professional quality and worth the download. Besides, I get a \$1 for every hit the web site gets (hey ... kidding!).

>From here in New Mexico, the comet has been spectacular, even naked eye. At closest approach, the tail was easily 30 degrees long.

Paul NA5N

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: "Jerry L. Bartachek" <jbartac@max.state.ia.us>
Subject: [6352] Antique Telegraph Key Internet Site
Message-ID: <315C24D6.322A@max.state.ia.us>

De "Jerry" KD0CA

For anyone who is an antique telegraph key buff, you may be interested in this fascinating internet home page.

B. Neal McEwen K5RW - home page contains many telegraph related topics:

- The K5RW Wire / Wireless Telegraph Key Collection & Historical Library
- References for Key Collectors and Historians
- List of Semi-automatic key (bug) makers
- How to pack a bug for shipping
- K5RW's list of duplicate keys for trade
- Dial-up Morse (sending landline Morse to other telegraph buffs on the telephone using old keys and sounders!)

- Telegraph Lore
- Other links to historical telegraphy sites

Located at:

<http://fohnix.metronet.com/~nmcewen/k5rw.html>

72,

Jerry KD0CA (QRP ARCI #5166)

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: Larry East <LVE1@inel.gov>

Subject: [6364] ARCI Membership Info

Message-ID: <2.2.16.19960329165954.21af8460@134.20.32.17>

For those of you who are new to QRP or the QRP-L list and do not know about the Amateur Radio Club International (ARCI) QRP club, this info is for you (all you old-timers can just hit the "Delete" key).

The ARCI is an "International" QRP club, but at the present time most of its members are in North America. It publishes a quarterly journal, "The QRP Quarterly" (nice original title... :-)) in January/April/July/October each year that is loaded with operating, construction, contesting and other information of interest to the QRPers. Membership dues are \$12.00 (US) for the first year and \$10.00 for renewals. To join, send your \$12.00 to:

Mike Bryce, WB8VGE
2225 Mayflower, NW
Massillon, OH 44647

Checks and money orders should be made payable to "QRP-ARCI".

If you reside in Europe, you can join by sending a check or money order for 7 British pounds payable to "G-QRP" to:

Dick Pasco, G0BPS
Crete Road East
Folkstone, Kent CT18 7EG
Great Britain

Join now to receive the July issue of The QRP Quarterly. NOTE: It takes a little time to process new applications, so don't send your \$12 to Mike (or Dick) in June and expect to receive the July issue!

If you would like an ARCI information packet which includes an application form and a sample copy of The Quarterly, send \$2.00 to Mike Bryce (address above).

72, Larry W1HUE
QRP Quarterly Special Features Editor

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: gusky@ibm.net
Subject: [6346] Argonaut 509 FS
Message-ID: <9603291450.AA0013@slip166-72-187-106.la.us.ibm.net>

NV5E, Will, has a nice, clean 509 for sale and is asking \$300.
I have seen the rig and QSO'd with him on SSB...sounded great!
I think he has the original manual with it. Anyway, his telephone
number is (504) 387-4979.

Mike Gusky
K5UX

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: "Moore, Randy (William R)" <WRMoore@ingr.com>
Subject: [6349] Batteries
Message-ID: <c=US%a=_%p=INTERGRAPH%l=HQ9960329080004AZ007500@hq14.pcmail.ingr.com>

Can someone recommend what sort of small battery is good for portable
QRP. I've been looking around and found batteries for motorcycles, lawn
& garden, and marine applications. The marine batteries are the only
ones I've found that are intended for deep cycle use, which I assume is
good. I'm sure this has been discussed before, if someone could point
me to the info.

Tnx es 73

Randy
_.. _.. _.. _.. _..
Randy Moore
Jupiter Workgroup Solutions
Intergraph Corporation
205-730-7850

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: Steven Wilson <randyw@crl.com>

Subject: [6383] Beacons and Receiving Attenuators Question

Message-ID: <Pine.SUN.3.91.960329114554.24304A-100000@crl7.crl.com>

In reading the reports of previous beacons, wa8mcq had used an attenuator to improve the signal to noise ratio to dig out the lower power beacon.

During the recent beacon (3557 khz - wa3nna) I found that I also had to resort to reducing the system gain in order to copy the lower power setting. I was able to read down to the 20 mw signal at 800 miles. I used a Cubic Astro 103BX with bandpass xtal filters, an external DaTong FL-3 and a w3nqn passive audio filter. It is possible to set the gain of the RF, IF and audio stages to the point that I can convert the white noise to a nice 800 hz tone out of the passive filter. While it is easy to back off the audio gain to eliminate the tone I found that I needed to reduce both the RF stage and IF stage Gain to copy the lower level beacons. I also had to run the AGC off. I have seen articles stating the maximum usable gain in a receiver is on the order of -137 db. However, I have not seen anything telling how this gain should be distributed between the various stages of the receiver. However, my experience indicates that the distribution of gain is more important than the value of the gain.

Anyone know how this works or where I can obtain an article discussing signal to noise ratio and gain distribution within a receiver.

I can say this it is a great pleasure to have your receiver peaked out and hearing nothing but white noise and it comes time for the 2 w signal and bing there is a nice 599 signal in the headset. Now if I can just figure out what I need to do to get the 2 milliwatt signal. I know it is not receiver gain.

de stan ak0b

e-mail via randyw@crl.com

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: "rohre" <rohre@arlut.utexas.edu>

Subject: [6392] Comments on tropic long wires

Message-ID: <n1383995834.76151@msmailgw1.arlut.utexas.edu>

There was a query for experience in using a long wire, and I believe it was Siong from Malaysia asking.

Well, I can replay some remarks I made here a year ago, about my 400 foot long wire while I was 9M2SM, whose end ran from the one story bungalow up to about a 60 foot coconut palm down the road.

This thing was tuned by the Pi Net on my Heath DX 20 transmitter, but you have to realize that the earth under your shack and antennas of certain types can make the difference in it working well, or being a miserable problem, as this 400 foot wire was to me. Even at 50 watts or less, it had RF in the shack so bad I would get RF burns any time I tried to use it.

Certain antennas depend on a good earth image reflector to work well, that is without annoying RF in the shack. The long wire for a particular frequency that is non resonant, can be such a beast in the tropics, or other poor soil RF reflectivity areas, (poor RF ground).

In the tropics like 9M2, you have very high rainfall year around. In fact I used to say it rained every day except during rainy season, it rained twice a day!

The result of this is that all the conductive salts have leached out of the soil, and are carried away down the rivers. This is why Malaysia is rich in Tin deposits washed from the hills and down to the sea.

But for RF efficiency, you need conductive ground to reflect your radio signal and to provide a low impedance reference for your rig. I believe I was using the metal water pipe system to the house for ground. It was not enough to keep RF out of the shack.

I should have put in a field of radials or used an above ground counterpoise.

I had a Marconi antenna for a short time when I lived in the desert. This was at El Paso TX. The quarter wave presents a high impedance at the end under the right conditions. Again I had RF in the shack, because I could not get the antenna up in the clear, and the ground was a poor RF conductor. (Sandy).

If you do not know whether the ground over which you are to erect an antenna is good for RF or not, you can measure by putting up a dipole antenna for a band, and seeing where the 72 ohm center impedance happens, as you raise and lower the horizontal section above local ground. If the local ground is a poor reflector, you may find you go higher or lower to get 72 ohms than the handbooks predict. Note this for future use, and compensate future dipoles to be at the height for the feed line to match.

A vertical without wire radials is not likely to do well over poor earth also.

And as long as you are putting up a dipole to test this property of local RF ground; you will find that the dipole is one of the easiest and most effective antennnas you can use as it is balanced and put high enough is immune to many

of the effects that lead to RF in the shack. Thus, if you just want to go ahead and get an effective antenna over any ground, a dipole will do the job. For gain, you can use multiple wavelength legs, and open wire feeder to a balanced tuner, either a Z match or Johnson Matchbox style, and you will have the effectiveness of a true long wire, without fighting RF in the shack.

For those who can get the current copy of "73" magazine, they have a piece on building a copy of the Johnson match box, and the first schematic of it I have seen in years. It was link coupled input to a tank coil that was tapped, and then that lead off to balanced seriesed capacitors that could be tuned, and which formed a balanced voltage divider to couple to open wire line. That is, if you look at one end of the tank coil, there was a capacitor, in series to another, and their junction was where the ladder line had one conductor connected. The bottom side of the lower cap went to the two caps for the other side. Perhaps one of the artists can put it in the archives, but when I see Ascii art here in the digest, it is scrambled, thus it might not do any good to try to draw it.

This would be a fine tuner for any longer than half wave antenna, thus it might be worth collecting a number of capacitors that could be ganged to one shaft for a home brew version. If one ever sees one for sale at a reasonable price like \$75, then you should go for it, as the so called 250 watt Johnson, was made for AM rigs, and really would run almost a Kw CW. The spacing of caps is heavy duty, high voltage design. Of course, it is a bit larger than several QRP+'s in volume, thus is not a backpackers tuner.

Hope my RF scars can help someone pick a better antenna for their own local conditions.

I envy my QRP-L friends from Nor tex who have better conducting soils up that way!

I can go down 18 inches or less in my yard and find huge limestone rocks, and they do not reflect RF very well either!

72, Stuart K5KVH

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [6393] Did you see Ed, N5EM in "73"?/ Ants.
Message-ID: <n1383995233.12501@msmailgw1.arlut.utexas.edu>

I was working two jobs in Sept. so did not get around to opening the anniversary issue, (35th) until the other night.

There in the AmSat feature, was a picture of Ed, N5EM of the list! Ed I recognized you even before I realized it was the regular Andy Mac-- Amsat

Page.

And those who have heard Ed talk about Field Day, will recognize his QRP set up for feeding three Vee beams with open wire line.

Now from all Ed tells me, the Vee beams would make a great tropical antenna; as they are a gain antenna, directional, and balanced. Ed's I believe were 330 feet on a leg, and if you have the space, that is a way to go.

And L. B. Cebik, here on the list ,has discussed and posted last year good results to be had with the compact Moxon beam, thus one can operate effectively in the tropical or other difficult locations, with a smaller antenna on a town lot or garden.

That is a wire antenna that can be used with buttons as insulators, and PVC pipe for frame, if one is able to get that. In the tropics, it would be an ideal antenna to build with bamboo frame.

72, Stuart K5KVH

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: af852@rgfn.epcc.edu (William R Colbert)
Subject: [6358] DX and later band openings
Message-ID: <9603291616.AA16858@rgfn.epcc.Edu>

Saw the posting about 20 being open later in the evenings - Well, 30 meters is improving and staying open later as well. Heard R1FJZ/FJL calling CQ last nite at 0340Z on 10.100.5. Gave him a call with my 4 watts and had a short qso. When I last heard him, he was still calling CQ USA, with a good 57-599 signal, well past 0400Z. At 1200Z today, heard an HK0 and a couple of JA stations o/a 10.103. Maybe better conditions are on the way.

Time for a 30-9er ??

Also for Grover, WT6P, I use #28 magnet wire (radio shack variety) at about 60-66 ft long. It is almost invisible after about 2-3 feet and seems to hold up well. I use it from hotel windows, particularly from Central America. Works well and spools up nicely to fit a box the size of the Altoids. Good Luck 72/73 Ray

--

Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6359] Forty-9er Kit
Message-ID: <199603291616.QAA00410@chuck.dallas.sgi.com>

Gang,

Like many others I have just received the kit from Doug Hendricks, KI6DS. You know, it seems almost trivial to add his call after his name. :-) :-) It's everywhere.

The kit looks great and I can't wait to get home from work to start on it. Congrats to Doug, Jim, and Wayne (and you know their last names) for another successful project.

First, the manual is throughly impressive due to the effort that Doug has put into the manual. Six quality pages including the article by Wayne Burdick, N6KR, and a page of pictorials showing what each part looks like. This is a must for the first time builder.

For those of us that have been around since the invention of dirt I would guess we tend to forget just how dependent we were on the detailed instruction manuals of Heathkit. With the detailed step-by-step instructions which we very methodically checked off and pictures showing each component, where it went on the board relative to all the other surrounding components, how to bend the leads, and when to cut and when to solder. Heathkit educated more hobbyists than many would admit to. Ever wonder why all those rigs and all that equipment seems to be missing the manuals? Well someone is keeping them because it was the most important part of the kit. I think the manual police should come out and round up all the horders!! :-) Joke gang, joke. :-)

Doug gives some good advice and steps in the manual. One thing that he does is copy the schematic and mark off each installed component with a red ink pen. Me, I prefer the highlighter. On a Dave Benson kit I photocopy the parts layout and the schematic (sorry Dave, individual right to copy :-)) and then highlight each part. When I get done I'm sure I didn't leave anything out and I do hold the board up to a backlight to see if there are any remaining

empty holes. I hate it when that happens. And the highlighted board and parts layout that Dave does looks pretty neat. Suitable for framing.

The only thing that Doug left out was the steps after soldering with 63/37 with 66 core was the toothbrush step. For those new to the list it's an inside joke about how I use my toothbrush to clean the board and my teeth. :-) Not really. I don't want lead poisoning. Don't do this at home, please. Use an old toothbrush and don't get water on the component side. The 66 core flux is "organic" and comes off with water and doesn't harm the environment. I've heard it is peanut butter related, but not confirmed. Will have to see if Paul Harden's new book mentions it.

Then next time you go into Radio Shack, ask them for Kester 63/37 solder with 66 flux core. Ask them to ask hq about it. Maybe we can get them to stock it for those in outta the way places. I read in the newspaper that 85% of the people in the USofA live within 5 miles of a Radio Shack. Scarey.

I didn't see anyone else comment on the FAR circuits board. Now I've had FAR circuit boards in a lot of projects from the NN1G Mark II series, freq marker, XTAL checker, and on-and-on..... This board is very very good. The silk screen is clean and a dark blue ink (well maybe a shade lighter) and aligned pretty good. It is the first board I've seen from FAR that had a good layer of solder on the land side. Fred has improved and the traces are nice and clean. Looks like the upswing in kits has helped everyone.

Now I gotta go back through the archives and get the mods. All this explosion in information really is exciting.

For \$25 postpaid from NorCal you can't lose on this deal IMHO. I don't get anything and I paid for the rig. \$25 to Jim Cates, WA6GER, will get you one. His address in case you lost it - 3241 Eastwood Road, Sacramento, CA 95821.

Quiz:

Which of the following is the correct spelling?

- a) 40-9er
- b) 49-er

- c) Forty-9er
- d) Four-T-9-r
- e) Fourty-Niner
- f) None of the above
- g) All of the above except f)

At 40 to 49 after the hour we'll be listening on 40M for all the beacons that are out there now. My problem is with 0.5W out, do I have to stay there and go retune all the rigs for lower power? NOT yet. :-)
Doug should have assigned numbers. He has the order in which they were ordered. Another number to have?

. .

(that's what it sounds like at lower power)

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: davander@niia.net
Subject: [6344] FS OHR 30 M explorer
Message-ID: <199603291210.GAA23096@silver.niia.net>

Fellow qrp'ers...

I have for sale my OHR Explorer for 30 meters. Perfect condition, 2-3 watts output. Asking \$75.

Dan
NA9N
219-324-5431
evenings and weekends

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: bfollett@ditell.com
Subject: [6391] FTP'ing to Listserv for DOS & Win Users
Message-ID: <199603300051.RAA10462@orion.ditell.com>

Gang--File for Reference for those affected:

Remember when Chuck and Jim Eshleman talk about downloading files/pictures from the Listserv that are compressed with the .Z extension, they can only be sent decompressed (ASCII), IF your FTP software allows a "get" statement. (FTP without the .Z extension)

Many of us use Internet packages that don't support line-at-a-time mode, and therefore, cannot issue a "get" statement. A reminder then, that Jim has provided us DOS/WIN users another solution, GZIP.EXE

GZIP.EXE is a utility that compresses files into the .Z format, and by using the de-compress option, you can use FTP to download .Z formatted files, thus saving transmission time, then, in off-line mode, run "GZIP -d Filename.Z" to uncompress your files.

To get GZIP.EXE, FTP to pub/listserv/qrp-l, and then to the Utilities Directory. You will find GZIP.EXE along with several other useful utility programs. Its NOT in .Z format, so you can download without any conversions.

Hope this is helpfull, es 73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10
2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Buck Switzer <n8cqqa@sun.tir.com>
Subject: [6386] Good Friday CW Sprint MI-QRP Club
Message-ID: <9603292136.AA13357@sun>

-----_828146100==_
Content-Type: text/plain; charset="us-ascii"

Gang - We decided to do a Good Friday CW Sprint long after the major mags deadlines. Please spread the word.
We'd like to add this one to our on-air activity list on a permanenet basis.

Hope to work you on 04/05/96, PM. Thanks.

72/73 Buck N8CQA
MI-QRP Contest Chair

--=====828146100==_

Content-Type: text/plain; charset="us-ascii"

MICHIGAN QRP CLUB
1996 GOOD FRIDAY CW SPRINT

DATE: 2300Z 5 April, 1996 to 0300Z 6 April, 1996.
(1800EST Fri. 04/05/96 to 2200EST Fri. 04/05/96)

CW only; 160 thru 6 Meters (no WARC bands). The activity is open to all amateurs.

CLASSES: A - 250 milliwatts or less output.
B - One watt to 250 milliwatts output.
C - Five watts to one watt output.
D - Over five watts output.

EXCHANGE: RST, QTH (State/Province/Country) and MI-QRP Membership Number
(non-members send power-output).

SCORING: Stations may be worked once per band for QS0 points.
All member contacts are 5 points.

Non member contacts in W & VE are 2 points.

Non member contacts outside W & VE are 4 points.

Multiply total QS0 Points, on all bands, by the number of States/
Provinces/ Countries worked
on all bands for total points.

U.S. & Canada do not count as countries.

BONUS POINTS: Total points may be multiplied by 1.25 for home brew RX or TX
w/commercial RX or TX combinations. Multiply by 1.5 for a
total homebrew station. Home brew
= any kit or home made gear, it is not necessary for you
to have built it yourself.

Those using homebrew gear on some, but not all bands, may claim credit by listing the proper bonus points in each band's "BPTs" column on the score sheet, adding them up and dividing by the number of bands used. Enter the average (round to 2 decimal places) in the "Totals" row, under the "BPTs" column. I'll do this for you if you give me adequate rig info on each band.

AWARDS: Certificates awarded by class for each State/Province/Country.

A legible, chronological log is required. Please include your name, call, address, equipment description and POWER OUTPUT Logs must be received by 4 MAY, 1996. Results will be printed in the June, 1996 T5W. Final decision on any contest matters rest with the contest manager.

All logs to: L. T. SWITZER N8CQA
654 GEORGIA AVENUE
MARYSVILLE MI 48040-1243

Log and entry sheets available for an SASE to the above.

-----_828146100==_--

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Bill Acito 29-Mar-1996 1329 <acito@asdg.ENET.dec.com>
Subject: [6373] Grid Squares Program
Message-ID: <9603291830.AA18112@us1rmc.bb.dec.com>

Anyone have a pointer/source/webpage for a grid square program
(i.e. input lat and long, and it outputs grid square, down to the
2 sub-letters, e.g. FN42dj)?

I've been doing some satellite work qrp, and this would be handy
to use in conjunction with a GPS or CALL2DIST programs.

b

. - I own my own words -
Bill Acito
acito@asdg.enet.dec.com
|d|i|g|i|t|a|l| Digital Equipment Corporation Hudson, MA

KC1GS ... qrp-ne ... qrp-1 ... qrp-arci ... norcal ... arrl life ...

| Listen for me on weekday lunchtime passes (1630 - 1730Z)
[#] of AMRAD-OSCAR 27, portable FN42
|

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: N5EM@aol.com
Subject: [6366] Have 10M - Will Get Serious!
Message-ID: <960329121627_501056534@emout10.mail.aol.com>

In a message dated 96-03-29 11:11:01 EST, you write:

>Relative to 10M, I know LB can give us a looog history of 10-10 efforts to
>get
>hams active on that band, and can relate to both successful and unsuccessful

>ideas.
>
>How about some other ideas?
>
>73, Bob
>
>

OK, time to "just do it". My HR2600 will be on 28.060 (only place that makes sense to me) monitoring continuously when I am home with the squelch closed and hooked up to an antenna that I will create from thin air (maybe thin wire) this weekend. Eventually, I will replace the HR2600 with a GM-10 (hint, hint). I shall hook it up to my CMOS memory keyer, load a CQ QRP and start it whenever I am in the shack. (When the now fabled Atomic Keyer - is ready, a real beacon controller will go in.) Should have it running by Sunday evening (thats local!). I'll make the CQ short enough so I have some receive time between calls. Just break in anytime - if you hear me, I'm in the shack.

After Dayton, I'll add 6 meters to the full-time, on-line combo (50.060). That will be the Ten-Tec transverter and TS-130V until I can replace it with a GM-06 (hint, hint :-). Hmmm, I'll need another memory/beacon keyer. Hurry up, Brad. No pressure of course.

Who else will get something on full-time/dedicated?

72 from Houston.
Ed Manuel, N5EM
n5em@aol.com

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Dan Puckett <af045@dayton.wright.edu>

Subject: [6388] HELP ME part deux
Message-ID: <9603292157.AA05049@dayton.wright.edu>

I want to say thanks to those that offered suggestions. Namely: Bob, John, Allen, Peter and Nils. If I missed you, its because your suggestion came after I wrote this. My VFO does. What fixed it? It seems to have started oscillating when I changed all of the caps in the tank to Silver Mica. The ceramic jobs that were in there just didn't hack it.

Anyway, Thanks again.

Dan WD8AAU ouch ouch (That soldering iron is hot)
af045@dayton.wright.edu

PS, Nils
Come on down to the FO meeting on Thursday. We're meeting at the Ryan's on 725, just off of I-675.

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: COUGER GORDON <gcouger@master.ceat.okstate.edu>
Subject: [6341] HW 9 FS
Message-ID: <199603290500.AAA50008@nss2.CC.Lehigh.EDU>

A fella I see at area hamfest alot has a complete HW9 station for sale. All four pieces. A HW9, power supply, tuner and power meter. It looks good a few small scratches. I don't remember what he wants for it but his email address is kolesnik.Vyvxl@GW.TCW.COM. His name is Hank Kolesnik WD5JFR.

I have bought and sold stuff to him over the last several years and I have always been satisfied.

Gordon AB5DG

Gordon Couger
Biosystems & Agricultural Engineering. 114 AG Hall Stillwater, OK 74075
gcouger@master.ceat.okstate.edu 405 744 8392 day 625-2855 evenings

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: mizrahi@svlhp8.scs.philips.com
Subject: [6368] Improved audio filtering for the 40-9er
Message-ID: <9603291744.AA05906@svln20.scs.philips.com>

I followed the LM-380 positive feedback scheme for the 40-9er and it does work. The one thing I wasn't happy with was the poor audio filtering. The setup resulted in a stronger audio, i.e. amplified QRM...

Of course this was never intended to be anything more than an easy-to-build radio, and no complaints - like most anybody else - I love it!

Once I started tweaking the audio amp it dawned on me that we can revert to the LM-386 and with roughly the same circuit complexity achieve better filtering and lower power too.

No major development, just copied from the NC40A, sort of.

Don't have the Norcal PCB, so can't advise on that, but should be easily done on that PCB too. N6KR described most of the basic mod earlier, I added the bypass cap from pin 7 and the RC between pins 1 and 5.

The full LM-386 circuit goes like this:

- pins 2,4 to Ground.

- pin 6 to +Vcc (similar to LM-380 pin 7)

- pin 3 is the input, connected to RFC2/C10 (same as LM-380)

- pin 5 is the output, connected to C13(+), same as LM-380 pin 6

The additional circuitry:

- 10 microfarad cap between pin 1 (+ side) and pin 8 (- side)

- 0.1 microfarad (or bigger) from pin 7 to Ground

- 1800 ohm resistor in series with 0.022 microfarad cap between pins 1 and 5

This is audio circuitry, so somewhat longer wires can be used, although it's always a good idea to keep them short due to the high gain.

The result:

Calculated about -8dB for 3KHz vs. 500 Hz, sounds pretty much as predicted.

It's absolutely an improvement, but -8dB are not exactly a "brick wall", especially if your tiny earphones favor the squeaky part of the audio spectrum. So, next we'll try a low-power dual-opamp active filter with some gain to cut some parts from the LM-386 circuit. Now that we saved a few mA at the audio stage, can afford some extra current somewhere else!

73 DE ORI AC6AN

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: james@research.nj.nec.com (James Bennett)

Subject: [6376] Met them in St. Louis...

Message-ID: <9603291916.AA08027@shakti.nj.nec.com>

I was fortunate to be able to make a couple of stops at Gateway electronics in St. Louis last week. Great resource for QRP type parts etc(usual disclaimers apply). I was in town on business but managed to find a bit of time. I was even more fortunate that my trip coincided with a meeting of the St. Louis QRP society on Wednesday March 20. Thanks to assistance from Dave NF0R I was able to get out to the meeting site. I really enjoyed the meeting and meeting the group there. Great bunch of folks. I would like to thank all of the St. Louis QRP society members for their hospitality. I got to see my first operating 40-9er, a couple of original St. Louis tuners, a distributed capacity tuned loop(amazing) and had many enjoyable discussions with various folks there. I highly recommend attending one of their meetings if you have the chance.

James Bennett KA5DVS/2

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: Charlos Potma <Charlos.Potma@rivm.nl>

Subject: [6343] Need some help with CASCADE's carrier suppression

Message-ID: <199603290845.DAA62514@nss2.CC.Lehigh.EDU>

I could use some help with the Norcal CASCADE. I have finished building the kit except for the 80m band module (still looking for the appropriate capacitors for the David Meacham mod).

The rig seems to work well. Plenty of 20m signals to be heard, output appr. 3 Watts.

I adjusted the carrier balance pot for minimum carrier but the residual carrier seems way too high at first and it gets smaller with time:

After pressing the mike button and
>not< speaking into the microphone
(using the recommended Radio Shack
speaker/microphone) this is what happens:

(measured with 60Mhz scope on 50 Ohm dummy load)
(Uv=12.6 V and drive is appr. 250 mA)

after	carrier is
15 sec	2 Vpp
30	1.8
45	0.4
60	0.3

75 150 mVpp
90 100
150 sec 60 mVpp

Note that the residual carrier is far better than the 0.5Vpp mentioned in the manual but what puzzles me is the time it takes to get there !

I also noted that in this experiment Q8 (2N3866) gets very hot where the PA transistor stays cool.

Output in dummy as seen on scope seems reasonably clean, output from TX filter however, as measured with 10:1 probe >after< the TX filter seems very dirty. Could it be that the probe capacitance upsets the filter ?

Anyone have any ideas what happens here ?

I would like to try this rig on the air but dare not do it until I get better carrier suppression.

73, PA3CKR
Charlos Potma
charlos@rivm.nl

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: privalko <privalko@oakland.edu>
Subject: [6397] Oh boyoboyoboy
Message-ID: <Pine.OSF.3.91.960329222934.13391A-100000@vela.acs.oakland.edu>

Finally... came home from the office today and my wife greets me with a notice that I got a bag in the mail from some QRP group. She thought it was about Dayton, but I *KNEW* it had to be my 49er kits!

It was, oh JOY, oh Bliss, Oh GEEZ I'm gonna be in Vega all next week at the InterOp Convention! No... I'm NOT taking the soldering pencil along, I want to enjoy putting this baby together. I ordered THREE of 'em. One for me, Walt WB8E who swore never to build anything, and a spare to sell for \$100 in a few years (inside joke to Chuck A.)

Holy Cats!!! Anybody try to get on 7040 tonight? Hooooooooolaaaaaaaa CQ
CONTEST leeeeeeesening 181. sigh

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [6384] OHR WM-1 sold!
Message-ID: <Pine.3.89.9603291514.C11188-0100000@w3eax.umd.edu>

WOW, that was quick! Still have

Backpacker II / 40m (\$80)
Explorer II (20m) for trade for a 40m version or sell for \$88.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***
* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: af852@rgfn.epcc.edu (William R Colbert)
Subject: [6357] paint
Message-ID: <9603291607.AA13750@rgfn.epcc.Edu>

One type of black wrinkle paint we use at work is Plasti-Kote #217, BLACK. After sprayed on and left to dry for a couple of hours, it takes on the black crinkle finish. Have used it for front panels, touch-up on existing equipment, etc. We found it at most of the local auto paint suppliers such as Pep Boys, AutoZone, and probably is in Walmart and Kmart as well. 72/73 Ray

--

Ray Colbert, W5XE/V31XE, El Paso, Tx

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: SYDV00A@prodigy.com (MR FLOYD E SMITHBERG)
Subject: [6351] Phoenix J309/NE602
Message-ID: <013.04707591.SYDV00A@prodigy.com>

Any of you ScQRPions, Rats, Foxes etc in the Phoenix area looking for J309, NE602 for your 40-9er may find them at:

MHz Electronics

3802 N. 27th Av
Phoenix.....ph.602-265-0731

There's \$10 min. Phone, they will put on 'will call' push buzzer at door and pick up parts. I tried Digi Key, Mouser and others in Phx ...couldn't find them. GL 73

Floyd NQ7X Phoenix ScQRPion

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: QRPBOOK@aol.com
Subject: [6371] Phone number needed.
Message-ID: <960329131502_457957358@mail02.mail.aol.com>

Does anyone have a phone number for C-W Crystals?

Please drop me a note direct to QRPBOOK@aol.com

Tnx,

Rich W0HEP

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: tkell@nyx.net (ted kell)
Subject: [6372] QQ
Message-ID: <9603291828.AA01925@nyx.net>

QQ has arrived. It has a nicely built Sierra on the front cover and the usual bag of interesting articles inside. Now, if I can only find a hiding place tonight to read it.

72

Ted KC5CUW

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6362] QRPp Index
Message-ID: <199603291641.QAA00544@chuck.dallas.sgi.com>

Gang,

I can email still and it doesn't take much effort.

If you have ftp access, try FTP.LEHIGH.EDU and
/PUB/LISTSERV/QRPP-L/ARTICLES/QRPP.NDX

Again, do a 'get' without the .Z that you see on
the end of the file and you'll get an ASCII file.
It ends on Dec 1995 and I'll update every six
months and post to the group.

I just read through every QRPP and typed in the
major headings. I apologize if there are any
typos and if you'll just gently remind me of any
omissions (unintentional I assure you) and/or
typos I will correct them and replace the file.

People have asked to put it on a web page, fine.
Just credit where you got it and point to it.

Oh, and I did them by title, author, call, and
page number. I gotta get Doug to limit the number
of critters in the title to keep the line length
under 80 characters. :-) I'm not one to point
this out as I have personally published refereed
papers in Astrophysical Journals that have taken
three lines myself. Sometimes that's what it
takes to give enough info.

I'll try to get another list by topic and yet
another list by author/call, but don't know how
useful that is gonna be. It is over 400 lines
long now and it shouldn't take too long to scan
or even read from end to end. Remember boys and
girls that Doug Hendricks, KI6DS, does have
back issues bound by year available.

I'll leave it as an exercise for someone else
to do HamBrew, CQC, 72, and some of the others.
SRAT would take years to do. :-) I think QQ
was done?

. . Oh, this is so much easier to type.

--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: adams@chuck.dallas.sgi.com (chuck adams)
Subject: [6390] QST England
Message-ID: <199603292326.XAA01517@chuck.dallas.sgi.com>

Gang across the pond,

Any one close to the offices of pw publishing ltd?

Broadstone
Dorset BH18 8PW

is the address I have. Which is the city and which
is the region? Question from a dumb Texan.

. .
--

Chuck Adams (K5FO CP-60) adams@sgi.com
Box 181150, Dallas, TX 75218-8150

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: "OPS Jim KC1FB" <p01599@psilink.com>
Subject: [6348] RATs or Chipmunks
Message-ID: <3037192501.1.p01599@psilink.com>

The Rat idea is great...I often say OH RATS!!!! when I can't find a fox,
but a CHIPMUNK would be much less threatening and elusive.

72/73

Jim Kc1fb #29

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: JessQRP@aol.com
Subject: [6340] Rocky Mountain High
Message-ID: <960328235035_457641179@emout08.mail.aol.com>

Hi All.

I will be "camping" in the cabin this weekend near Rocky Mountain National

Park just outside of Estes Park CO. this weekend starting Friday night.

I will be on the air most often at night between 0200 and 0500 zulu, with some sparatic daytime operation as time permits. I will be taking antennas for 30 meters and 40 meters and a hunk of wire to try my luck on a 80 meter end fed Marconi, but not promising anything for 80 meters. Rig will be the OHR 400 and maybe a couple of others for backup like the NN1G SW40 at 1 watt and the AA Eng Gary Breed rig on 30 meters.

I will be on or around 7040 calling CQ QRP and on around 10116 same deal. I might try loading up the 40 meter dipole on 20 meters but that may or may not work well enough.

Elevation will be about 8700 feet with a sloping away shot from the mountains to the East, so propagation should favor the Left Coast and points beyond.

If you want to work a "rare" county and have some fun, I might even print up a special QRP Rocky Mountain QSL card depending on the response. I will not be able to get my Email there and will be gone by the time that you might respond, so just give a listen on 30 meters in the morning about 12:00-14:00 Zulu and in the evening on 40 meters from about 0200 to 0500 Zulu from Friday evening to Sunday morning.

Best to all, I know I am going to have some fun!

Jess NOTFI

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Robert Welch <willis@infinet.com>
Subject: [6385] Sale Index Plus rig
Message-ID: <Pine.SUN.3.91.960329162439.19969A-100000@user2>

For sale Qrp plus Index rig with microphone and mfj power pack for portable or base station use \$465.
Rig is in mint condition. Call Bob 1-614-8813 after 6:00 pm or e-mail.

mqq
x

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [6374] Sell: OHR WM-1 Wattmeter, Tejas Backpacker II/40m, OHR EX II/20m
Message-ID: <Pine.3.89.9603291352.A10841-01000000@w3eax.umd.edu>

IF YOU WANT ANY OF THESE ITEMS, I WILL BE AT TIMONIUM, MD SATURDAY A.M.

ITEM #1

OHR WM-1 - Nearly perfect condition (a couple of thin scratches on side of case) and works perfectly. With manual.

Strangely enough, 2 months ago I had no WM-1 and pined for one. I bought one about a month ago, and then got another one in a package deal 2 weeks ago. I thought a friend would want it, but he came over and looked at it and decided his Daiwa was adequate.

New price at OHR: \$79.95 in kit form. Asking \$69.00 plus a few bucks to ship UPS.

ITEM #2

Tejas Backpacker II / 40m Direct Conversion rig. All aluminum case, with heavy plastic knobs. Three-position audio filter, very sensitive receiver with SPOT control. Like new condition; I got this about 4 months ago in partially/incorrectly-built condition and spent many hours nursing it to health. Prodigious amounts of audio output to headphone jack.

Weights about 20 ounces and covers from 7.000-7.200 MHz. Sold for \$129.95 (discounted from \$169.95 - a little steep for a DC rig) new. I have the manual and am asking \$80 plus shipping.

ITEM 3

Oak Hills Explorer II / 20m. Superhet radio with variable BW tuning. Got this in package deal with WM-1. Perfect physical & electrical condition, with manual. PREFER TRADE FOR EXPLORER II / 40m (but will sell for \$88 plus shipping - goes for \$100 new in kit form).

Again, I will be at the Timonium, MD hamfest TOMORROW, SATURDAY, 3/30.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***
* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: burdick@interval.com (Wayne Burdick)
Subject: [6360] Sierra band module socket: life expectancy?
Message-ID: <v02130500ad81bd7b94b0@[199.170.106.28]>

>what is the estimated life of the...band module socket/module fingers?
>
>One of the IBM/Celestica fellows took a look at it and shook his head
>with a mutter of "of yeah, we USED to use those...." Anyhow, he was in
>quality control...

Brien,

I recall that the actual spec on the connector is 500+ insertion/extractions before some level of contact resistance is exceeded (something like 0.1 ohms, probably). But note that ALL of the connections are redundant (that is, two edge fingers are used for each connection--one on each side of the module), and that the fingers have thick gold plating. Also, there are many extra ground connections. (By the way, the Ten-Tec Scout also uses edge connectors for its band modules. But I don't think the connections are all redundant as on the Sierra.)

I destructively tested some Molex connectors before settling on the edge connectors. The Molex 0.156 spacing connectors only made it into the low 100's before they started showing signs of wear. Presumably a VME-style connector would have long life, too, but I used to work at a company that used these on its cards, and I saw so many of them get bent during repeated insertion that I resolved to never use them in any of my designs.

Emprically speaking, I've inserted/extracted my modules many more times than 500 and have never heard or seen any sign of a connection failing. I do clean the contacts occasionally, although my time-proven technique--using a pencil eraser--would probably elicit another mutter from your QC guy.

I double-dare anyone to wear out a Sierra module or edge connector. :)

73,

Wayne
N6KR

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Raymond Sommers <rsommers@worf.uwsp.edu>
Subject: [6396] Slinky Antennas
Message-ID: <Pine.BSI.3.91.960329212812.19935B-100000@worf.uwsp.edu>

Just saw some of the old metal slinkys for sale in a surplus catalog. I recall reading about antennas made from them but can't find any reference in my antenna books. Has anyone ever used one?

~ ~ ~ ~ ~
| | | | |
|/\| | | | |
~ ~ ~ ~ ~
the little ilowatt \ , uster (Wisc.)
from ~

Ray Sommers, rsommers@worf.uwsp.edu
WB9LKC QRP-L #8-) qrp ARCI #3816 NorCal #1423

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Richard Schneider <74602.3317@compuserve.com>
Subject: [6395] SSB 1W DX
Message-ID: <960330033410_74602.3317_EHH37-1@CompuServe.COM>

Well, hope LU2EC is for real -- worked him on 1 watt SSB during the WPX contest on 15 meters.

Also nailed 20 other QSOs during the contest on 1 Watt.

Dick..

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: PDouglas12@aol.com
Subject: [6394] Subscribing to Dayton-L
Message-ID: <960329210256_365521911@mail06>

As Dayton Approaches it will occasionally be necessary to post messages like this one; sorry for the bandwidth.

Dayton Badges and other vital Dayton info is being posted on Dayton-L. If you are planning to be there, do subscribe to the list by sending email to:

LISTSERV@LEHIGH.EDU

In the body (subject line is ignored) type:

SUBSCRIBE DAYTON-L

That ought to get you there. Sorry again for the bandwidth, but we may have some who should be getting info who aren't yet cross-subscribed.

Thanks,
Preston WJ2V

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: BillCombs@aol.com
Subject: [6367] Triton IV For Sale
Message-ID: <960329123812_457935169@mail04>

For Sale: Ten Tec Triton IV (Model 540--non digital) with crystal calibrator, cw filter, microphone, and power supply: \$250. You pay shipping.

The 540 is in excellent to mint condition. Runs 100 watt max but power is continuously adjustable. On 10 meters it covers 28-29 mhz; I never bothered to purchase the other 2 ten meter crystals from Ten Tec. Used to cost \$5 each. The power supply (262G) is in good condition, though the back of the case has been pushed in some. I think it happened when I was moving. Works FB.

Reach me at:

BillCombs@aol.com

Phone (after 6 p.m. EST) 313-388-4092

73,
Bill K4CPK
Allen Park, MI

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: QLF%mimi@magic.itg.ti.com
Subject: [6377] VGA SPRINT??

Message-ID: <9603291922.AA27021@itg.ti.com>

From: Brad Bradfield QLF

Subj: VGA SPRINT??

Hey, why not? We got the Color Burst Sprint, why not the VGA Sprint?

When I have my HR2600 in the van (not lately!) and scan the lower part of the band, it will often lock up on the VGA frequency. Some computers radiate more than others.

73's

Brad, WB0CGH

```
*****
Brad Bradfield, PE                      Electrical Design Engineer
Corinth, TX                            Texas Instruments, Inc.
```

QLF@MSG.TI.COM

WB0CGH@W05H.#DFW.TX.USA.NA

ARRL Life Member QRP-L #377 SMIRK #4906 IEEE(M)

Collector of wireless and landline Morse keys and accessories.

```
*****
```

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996

From: cookes@pop.jaring.my (Siong Teck Cheun @ Joseph)

Subject: [6347] WANTED HW-9 BUILT OR UNBUILT

Message-ID: <199603291326.VAA29685@jaring.my>

Hi Gang,

Anyone wanted to get rid of his QRP HW-9 please reply to personal e-mail address with offer stating condition of set any accessories or modifications made but price must include postage & packing to Oregon USA.

72/73

Joseph

```
*****
*      SIONG 9M8ST/V85ST          /-/-/ ~ /|\      *
*      G-QRP 7986                 /^\ |/\ /_|\_ \      *
*  e-mail cookes@pop.jaring.my    | //^^\ \      *
```

```

*      snail mail address :      ____/^\\_/_|%@|_\\_      *
*      171D Cookes Drive      *
*      93150 Kuching Sarawak      *
*      MALAYSIA      *
*      *      *      *      *      *      *      *      *      *
*      # For more information about SARAWAK check in #      *
*      *      *      *      *      *      *      *      *      *
*      http://www.sarawak.gov.my/stb      *
*      *      *      *      *      *      *      *      *      *
*****

```

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
 From: "Caracota Razvan" <SPACE@lic_dc ldc.sfos.ro>
 Subject: [6350] What are you doing now
 Message-ID: <7A1CBB105A@lic_dc ldc.sfos.ro>

my reale name is:

```

*****      ****      *****      ** **      *****      ** **
* **      * *      *      ** **      * *      *** **
*****      * *      *      ** **      * *      ** ***
* **      *      *      * *      * *      *      *
* **      * *      *****      **      * *      *      *

```

RAZVAN CARACOTA AND I AM FROM RMANIA
 I THINK YOW NOW THIS COUNTRY
 GOOD BY

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
 From: lhalliday@creo.bc.ca
 Subject: [6382] Re: 10 M xtals -- 28.322
 Message-ID: <9602298281.AA828130574@mail.creo.bc.ca>

Instead of 28.322 MHz VGA crystal, how about a logic chip VX0,
 multiplying a 4.096 MHz crystal by 7 for 28.672 MHz? The tuning range
 should be respectable, and the dominance of odd harmonics will
 simplify the filtering. Which you have to do, anyway...

Laura Halliday VE7LDH "C'est une femme mutine, assez

lhalliday@creo.bc.ca
ve7ldh@amsat.org
Locator: CN89mg

elegante, grave et legere, ayant le
sens du confort et du plaisir
en tout." - C. Deneuve

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: "Rafael Garcia (EA4RJ)" <tie@bitmailer.net>
Subject: [6369] Re: 10 meter qrp xtal rig
Message-ID: <Pine.LNX.3.91.960329155245.560A-100000@ea4rj.ampr.org>

On Thu, 28 Mar 1996, Kent Torell wrote:

> >2. Crystal. The qrp freq is 28.060, but Digikey has xtals at 28.000,
> >28.322 and 28.636.
>
> Note that Novice/Tech+ operators are restricted to operations from 28.100
> to 28.500, so the 28.322 mite be a popular choice...

If I'm not wrong, 28.322 MHz is the frequency of VGA video in most of
computers. I think it will not be a right choice if the computer cause
some RF leaking... the receiver can be easily overloaded.

Rafael,
Madrid (Spain)

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Steve Slavsky <sslavsky@CapAccess.org>
Subject: [6339] Re: 10M CW rules
Message-ID: <Pine.SUN.3.91-FP.960328233934.14077B-100000@cap1.capaccess.org>

On Thu, 28 Mar 1996 bfollett@ditell.com wrote:

> Patrick wrote:
>
> <<Here's my suggestion:
>
> Score = (contacts)*(grids)*(QRP-L numbers)>>
>
> The only fascinating thing about this approach is that only CHUCK is at unity
> for numbers, and latecomers have a 500+ multiplier!!

You are kidding, I hope???? I am pretty certain Patrick meant multiply by

the NUMBER of QRP-L members worked, NOT your QRP-L personal number.
We're not that deep into the twilight zone yet, are we?

73 & 72,

Steve, N4EUK
Reston, VA

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: bfollett@ditell.com
Subject: [6353] Re: 10M CW rules
Message-ID: <199603291554.IAA27309@orion.ditell.com>

Gang:

Steve, N4EUK wrote:

<<You are kidding, I hope???? I am pretty certain Patrick meant multiply by
the NUMBER of QRP-L members worked, NOT your QRP-L personal number.
We're not that deep into the twilight zone yet, are we?>>

Sorry Steve and Patrick, but what Patrick meant and what he wrote are two
different things!! Of course I knew the difference at the time I replied.
Lighten up...

Seriously, though, we need more than just the mantra "Just do it" to get the
bulk of this group on the air. Right Chuck?

So, I am willing to debate any serious schemes to do that, recognizing that each
member's reasons for NOT operating run from simple to complex, from hardware to
mental, and there is no easy answer that fills everyone's needs. I, for one,
would love to see some postings from members who haven't participated in Fox
hunting and the 30M "experiment" to hear what it might take to get them on 10M,
or any band, for that matter.

Relative to 10M, I know LB can give us a looog history of 10-10 efforts to get
hams active on that band, and can relate to both successful and unsuccessful
ideas.

How about some other ideas?

73, Bob

Bob Follett WA7FCU, QRP-L # 129, NorCal, ARCI, 10-10

2861 Estates Dr. VOICE: 801.649.6457
Park City, UT 84060 Home Office E-mail: bfollett.ditell.com

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Pat Taber <ptaber@logicraft.com>
Subject: [6361] Re: 10M CW rules
Message-ID: <199603291635.LAA105597@nss2.CC.Lehigh.EDU>

```
><<You are kidding, I hope???? I am pretty certain Patrick meant multiply by
>the NUMBER of QRP-L members worked, NOT your QRP-L personal number.
>We're not that deep into the twilight zone yet, are we?>>
>
>Sorry Steve and Patrick, but what Patrick meant and what he wrote are two
>different things!! Of course I knew the difference at the time I replied.
>Lighten up...
```

Oh dear. I've been fazzed and I didn't know it. Yesterday, just as I was sending the message you seem to be replying to our site took three closely spaced power hits and the mail got -- well -- put into an odd state. So I didn't see my own message (sorry if the repost shows up again today) or any replies.

Yes, I meant to multiply by the number of unique QRP-L numbers you collect. But I'm open to suggestion. Multiplying by the summation of all QRP-L numbers collected could also be fun. Multiplying by the value of your own number could also be fun and would probably skew the results in the right direction -- and I'm not just saying this because I have number 215.

To get into what would bring people out onto 10M to frolic and play, I would guess that a big motivator for the fox hunt was semi-realtime reporting. Maybe a requirement to submit logs via the list on a regular basis which go into accumulating standings would do that. (I can hear the groans from the folks who were hoping to lose the fox reports for the summer...)

Just a thought.

>>>==>PStJTT

Patrick Taber
Principal Software Engineer
Logiccraft Information Services
22 Cotton Road
Nashua N.H. 03063

Email: ptaber@logiccraft.com
Phone: (603) 880-0300
Fax: (603) 880-7229
Also known as: KC1TD

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Paul Harden <pharden@aoc.nrao.edu>
Subject: [6387] Re: 2N3053 Info
Message-ID: <199603292214.PAA22850@zia.aoc.nrao.edu>

Mike and others,
The 2N3053 is a TO-39 metal can general purpose transistor, with
the standard E-B-C pin pattern.
Collector-emitter breakdown: 40v (2N3053A 60v)
Emitter base max.: 5v
Continuous collector current: 700mA
Power dissipation: 5W

DC current gain HFE: 50 to 250
VCE(sat): 1.4v (2N3053A 0.3v)
VBE(sat): 1.7v (2N3053A 1.0v)
Bandwidth product FT: 100 MHz
Input capacitance: 80pF
Output capacitance: 15pF

Incidentally, Motorola recommends a 2N3019 be used for new designs.
Most parameters are the same, except collector current is rated at
1A, slightly higher breakdown voltages and 400 MHz Ft.

GL, Paul NA5N

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Rich_Stern_at_WFF-E105@ccmail.gsfc.nasa.gov
Subject: [6355] Re: Batteries
Message-ID: <9602298281.AA828126208@ccmail.gsfc.nasa.gov>

8 amp-hour lead-acid batteries seem to do nicely for most QRP rigs.
Yuasa, Panasonic and other manufactures....

Cost is less than \$20.00 and weighs in at abt 3 lbs.

They last a couple days to a nearly aweek depending on your ops.
I've used a alarm type recharger picked up at a hamfest.

Used MFJ-9030, NE_QRP/40-40 and Howes 20m rigs with success

A solar panel for recharge is IDEAL! demand is getting crazy and cost
keeps stopping me...

de NE-QRP #333...NW3N (EASTERN SHORE
QRP-TVI GENERATOR) dit dit

----- Reply Separator -----

Subject: Batteries
Author: WRMoore@ingr.com at Internet
From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: earwax@indy.net
Subject: [6370] Re: Have 10M - Will Get Serious!
Message-ID: <199603291746.MAA03825@IndyNet.indy.net>

>
>Who else will get something on full-time/dedicated?
>
>72 from Houston.
>Ed Manuel, N5EM
>n5em@aol.com
>
>
>
Ed,

This thing is really starting to snowball ! I saw a guy outside the local
Rat Shack,
with a sign. WILL WORK FOR 10 METER CONTACT Sri, didn't catch his call.

73 es etc...

Charlie

Charlie Kuhn, N9NVV
earwax@indy.net
Censor Yourself, Not Others
All Disclaimers Apply

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Roger Hightower <aa7qy@netzone.com>
Subject: [6380] Re: Phoenix J309/NE602
Message-ID: <199603292009.NAA10320@nz1.netzone.com>

At 10:40 AM 3/29/96 EST, MR FLOYD E SMITHBERG wrote:

>
>Any of you ScQRPions, Rats, Foxes etc in the Phoenix area looking
>for J309, NE602 for your 40-9er may find them at:
>
>MHz Electronics
>3802 N. 27th Av
>Phoenix.....ph.602-265-0731
>
>There's \$10 min. Phone, they will put on 'will call' push buzzer at
>door and pick up parts. I tried Digi Key, Mouser and others in Phx
>...couldn't find them. GL 73
>
DC Electronics in Scottsdale has them...no minimum, and you can call
in the order, use your plastic, and he will mail.

72/73 de Roger AA7QY

NorCal 1099 CoQRP 176 QRP-L 62 G-QRP 9081 ARCI 8946 NE-QRP 383

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: prvalko <prvalko@oakland.edu>
Subject: [6354] Re: Rat hunt Tuesday
Message-ID: <Pine.OSF.3.91.960329105531.15442A-1000000@saturn.acs.oakland.edu>

On Thu, 28 Mar 1996, BOB KELLOGG wrote:

> OK, gang, by popular demand, the rat will be out of his hole Tuesday, April
> 2 from 9:00-11:00 PM EST. Thats Wednesday morning 0200-2400 UTC. He will
> be hovering around 7.040 MHz +/-.

This is fun and all but GEEZ guys, couldn't ya come up with sumthin'
better than RAT. Fercryinoutloud.

73! =paul= wb8zjl

> Prolably, but not nececelery. - Benny Hill
Benny Hill was cool

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Steve Slavsky <sslavsky@CapAccess.org>
Subject: [6379] Re: Rat hunt Tuesday
Message-ID: <Pine.SUN.3.91-FP.960329144841.9046A-1000000@cap1.capaccess.org>

How about Roach Hunt - something small, very quiet and gets stomped on by the big guys when it pops up????? Sounds an awful lot like QRP, personal hygiene aside.

73 & 72,

Steve, N4EUK
Reston, VA

From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Rich_Stern_at_WFF-E105@ccmail.gsfc.nasa.gov
Subject: [6356] Re: RATs or Chipmunks no its a FERRET!
Message-ID: <9602298281.AA828126216@ccmail.gsfc.nasa.gov>

How about a 'Ferret' according to Webster

1)partially domesticated mammal related to the weasel and used esp. to hunt rodents.

2)to drive out of a hiding place

3) to find and bring to light by searching

de Rich

----- Reply Separator -----

Subject: RATs or Chipmunks
Author: p01599@psilink.com at Internet
From owner-qrp-1@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Monte Stark <ku7y@sage.dri.edu>
Subject: [6363] Re: Sierra band module socket: life expectancy?
Message-ID: <Pine.SUN.3.90.960329084819.2721A-100000@vortex.sage.dri.edu>

On Fri, 29 Mar 1996, Wayne Burdick wrote:

> I do clean the contacts occasionally, although my time-proven
> technique--using a pencil eraser--would probably elicit another mutter from
> your QC guy.
>

While I was Sr. Tech at a electronic mfg plant, (The Micromanipulator Co.), all units that were returned for service recieved the good ole' eraser treatment on all plug in cards!

I liked the soft, white erasers that come in the little plastic tube and slide out as needed.....

Keep up the good work Wayne. cul,

73, Ron,

.....KU7Y.....ARCI #8829.....Monte "Ron" Stark.....
....ku7y@sage.dri.edu.....Washoe Lake, Nevada....
....QRP-L #17....ARRL....NorCal #330.....NRA LIFE.....

From owner-qrp-l@Lehigh.EDU Fri Mar 29 22:19:45 1996
From: Clark Savage Turner WA3JPG <turner@safety.ics.uci.edu>
Subject: [6398] Re: Slinky Antennas
Message-ID: <14106.828157723@safety.ics.uci.edu>

> Just saw some of the old metal slinkys for sale in a surplus catalog. I
> recall reading about antennas made from them but can't find any reference
> in my antenna books. Has anyone ever used one?

They work OK. The slinky is just a flexible inductor. You can stretch it out to whatever your space allows. There are losses because it is like a big coil (and if you can stretch it out almost straight, why use the slinky anyway?)

There was a commercial slinky antenna, just a pair of large slinkys with a coax connector in the center. I bought a slinky at a toy store when I lived in a city apartment so that I could slide it out and stretch it along the clothesline running from my 2nd story window to a support pole for the clothesline 30 feet away. I fed it at the end with a short piece of coax to a tuner. It worked fine for the limited space I had.

Now that I have space, the slinky makes no sense to use. However, where your space is limited and you want to load up for a lower frequency, it works OK with a tuner. Just run it out as long as you can and get a good tuner and go.

Clark
WA3JPG